FIG. 3

1(2) 3(4) 5(6)
Low-k Low-k barrier barrier barrier barrier
0 0 0
0 0
(O) (O) (O)
0
0
(0) (0)
(0) (0)

"Low-k" in the formed film type column denotes the low-dielectric insulating film, denotes the barrier insulating film. Note 1)

(C) in the CxHy, CxHyFz, and CxHyBz columns represents both cases where CxHy, CxHyFz, or CxHyBz is added and is not added. Note 2)

(O) in the surface layer removing process column and the waterproof process column represent both cases where the concerned process is applied and is not applied. 3 Note

plasma process column and annealing process in the annealing process column may be applied. Regarding the barrier insulating film, as the case may be, the plasma process in the n addition, the waterproof process in the waterproof process column may be applied 4) Note